

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-6 (cancelled)

Claim 7 (currently amended). A dynamic balancing system for a computer tomography gantry, the gantry rotating about a gantry axis and supporting components for acquisition of tomographic data, the balancing system comprising:

at least one electronically positionable weight attached to the gantry for movement with respect to the gantry along the gantry axis according to a received position signal to correct imbalance in the gantry caused by variation in the components;

The dynamic balancing system of claim 1 wherein the electronically positionable weight is movable along two weight axes having components of motion parallel to the gantry axis and radial to the gantry axis, respectively, each receiving an independent position signal.

Claims 8-19 (cancelled)

Claim 20 (previously presented). A dynamic balancing system for a computer tomography gantry, the gantry rotating about a gantry axis and supporting components for acquisition of tomographic data, the balancing system comprising:

at least one electronically positionable weight attached to the gantry for movement with respect to the gantry along two axes according to two received position signals to correct imbalance in the gantry caused by variation in the components.

Claim 21 (previously presented). The dynamic balancing system of claim 20 including two electronically positionable weights, each attached at spatially separated points on the gantry, each receiving an independent position signal.

Claim 22 (previously presented). The dynamic balancing system of claim 21 wherein the two electronically positionable weights are positioned along lines of radius from the gantry axis that are perpendicular to each other.

Claim 23 (previously presented). The dynamic balancing system of claim 20 wherein each of the electronically positionable weights are movable along an independent weight axis, wherein the weight axes are perpendicular to each other.